

Friday March 15, 2019

7:30pm

Our Saviors Lutheran Church

1035 Carol Lane Lafayette

DX Interest Group Meeting

With Dave Piersall, N6ORB 6:30pm

*** License Testing 6pm ***

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Women's History Month



**Astronaut Sunita Williams
KD5PLB
(retired U.S. Navy Captain)**

MARCH PROGRAM

Presented by Art Mayoff, AA6AM

Go Kits

Amateur Radio in a Box



(Lisa Duncan photo)

Art will bring and demonstrate three different styles of GoKits that he designed and built for the Benicia ARC. The presentation will be non-technical in nature primarily aimed at those who have been toying with building their own GoKit. Hopefully this presentation will provide ideas to help you get started. A comprehensive parts list will be provided.

Art has been licensed continuously since 1961 and hold both US and Canadian licenses (AA6AM and VE2AQV). He is a former board member of MDARC, a past president and was MDARC's auctioneer for 25 years. He taught MDARC's Ham Radio evening classes when they were conducted at Sun Valley Mall and at College Park and Pleasant Hill high schools in the 1960's and 1970's.

Prior to retiring in 1999, Art was President and CEO of Contra Costa's County's only ham radio store (The Base Station) in downtown Concord for almost 25 years. He is an ARRL-certified instructor and a CERT instructor, and an accredited Volunteer examiner for both ARRL and W5YI. AA6AM is also a member of Solano County Sheriff's Auxiliary Communications Service team and is a 16 year volunteer with the Benicia Police Department.

LICENSE TESTING REPORT

The following persons passed license examinations at the February club meeting:

Extra: Albert Buchanan, KM6BVX

General:

Craig Diestel, KM6YCJ
John F. Kearney, KM6ZJT

Technician:

Jeremy Thorsness, KN6ACA
James Cartmell, KN6ACB
John Tumath, KN6ACC
Nicholas Cantwell, KN6ACD
Sergio Escobar, KN6ACH

If you hear any of these stations on the air,
please congratulate them on passing their tests!

Larry Loomer, KI6LNB
License Testing



amazon smile
You shop. Amazon gives.

When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:
<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group will be abolished)

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary - Larry Loomer, KI6LNB
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU Dave Piersall, N6ORB
John Primus, AF6RJ Mike Warren, W6MEW

Membership Chair - Tom Deeble, KA6SIP
mdarcmembership@mdarc.org

PACIFICON 2019

Co-Chairs: Misa Siemons, KJ6BUE,
Vicki Zumwalt, N6KLS, Julie Mah, WJ8MAE
Registration: Debbie Deeble
Treasurer: Jim Siemons, W6LK
Secretary: Cathi Walton, K2CJW

COMMITTEES

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Larry Loomer, KI6LNB
Communications Van - [vacant]
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare Coordinator - Diana Sage, KA6TZU
Holiday Dinner Coordinator - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach Coordinator - Dick Wade, WM6G
Public Service Coordinator - Klaus Berkner, K6KHB
Refreshments Coordinator: Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jay Caldis, KT6Y
Technical Committee Chair - Jim Siemons, W6LK

The Carrier Newsletter

Editor, Matthew G. Vurek, N4DLA
n4dla_cs245@yahoo.com
Proofreader - Larry Loomer, KI6LNB
Printing: Tom Deeble, KA6SIP

Amateur Television Help and Information:

Fred Coe, WB6ASU wb6asu@icloud.com

President's Message

MDARC Family

Had enough of the rain yet? Looks like we will have a great snow pack after all the winter's rains are over, but we will still need to conserve and put into practice the lessons learned from our lean-water years.



When the weather improves, do you have ham radio projects in mind? I know that for me, improved weather means preparing for public service events and that means making sure my equipment is in good working order. It is also a great motivator to build portable go kits using the unused transceivers sitting in my ham shack and it is a great opportunity to improve on what has already been built and to learn new skills.

Speaking of ham shacks. Is yours getting a bit cluttered? Now is the time to start thinking about what equipment to make available for MDARC's April Auction and to think of what equipment you'd like to add to your ham shack. Always good to have it somewhat cluttered!!

Don't forget that the MDARC Auction will **NOT** be on the 3rd Friday of April because Good Friday falls on this date and Our Savior's Lutheran Church has services planned. So mark your calendars for **April 26**. Do it now so you don't forget.

The Board approved the MDARC budget and it was published in February's CARRIER.

Because we had a very favorable amount of funds available from Pacificon 2018, the Board felt

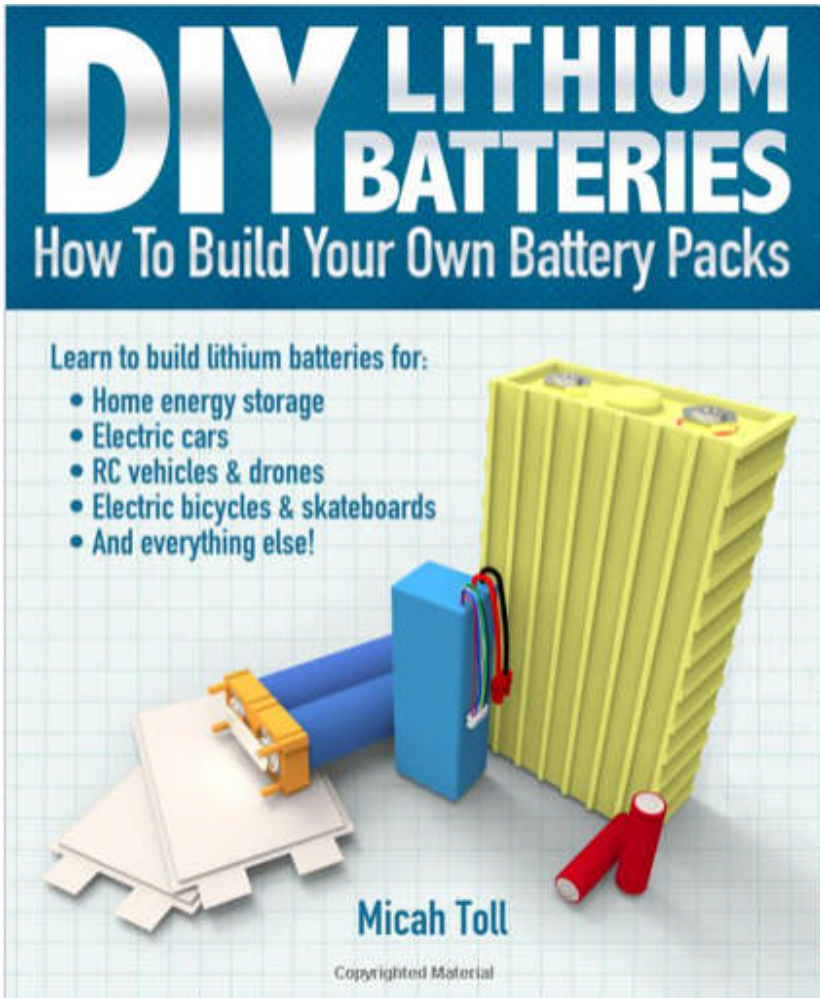
Total	600	
Outreach		
Awards	350	
Camp/Carr fire repeater recovery	15,000	1/7/19 Board meeting
CCC Science Fair sponsorship	550	12/3 Board meeting
Marketing	300	
Printing/Copying	400	
Scholarships	0	
Total	16,600	

we are in a position to help to restore repeaters damaged in the Carr and Camp Fires. The Board does not take this responsibility lightly and each applicant will be fully vetted to determine need and restoration intent. The Board has set a limit of \$1,000 per repeater with the understanding that the recipients must have ad-

ditional funds available to complete the repeater installation. MDARC is not obligated to spend the entire \$15,000 budgeted for this program and a committee has been assigned to oversee this Camp/Carr Fires Repeater Disaster Recovery Program with reports provided to the Board each month. This committee is currently partnering with other organizations to assess which repeaters have been damaged and which are anticipating re-installation/operation. If you need more details, then please attend the Board meeting, check the CARRIER for updates or contact Mike Patterson, N6JGA who chairs this committee.

Storm damage anyone? A storm in mid-January caused three large trees located in the creek behind our house to fall and damage a chain link fence and the chicken coop and run. As these three trees fell, they also "took out" some other trees which made quite a mess. The ham shack is on the opposite corner of the property but is not "immune" from such damage. Twenty-plus years ago, when there was a wood garden shed located in this location, a large oak tree branch fell and demolished this garden shed.

Homeowner's insurance replaced it and now that garden shed has been repurposed as my ham shack. Is this location still in harm's way? That very large oak tree...in fact considered a heritage oak.....is still there and has been dead for several years. But from the looks of it, the center of gravity points away from our property, but even so, it always gives me some cause of uncertainty. Why not chop it down, you ask? Well, it is not on our property and would cost thousands of dollars. But our ham shacks can sustain other sorts of damage during the storm season which is why I use a bright flashlight to check for small water leaks so I can fix them before real damage is done to my equipment. I suggest you do the same.



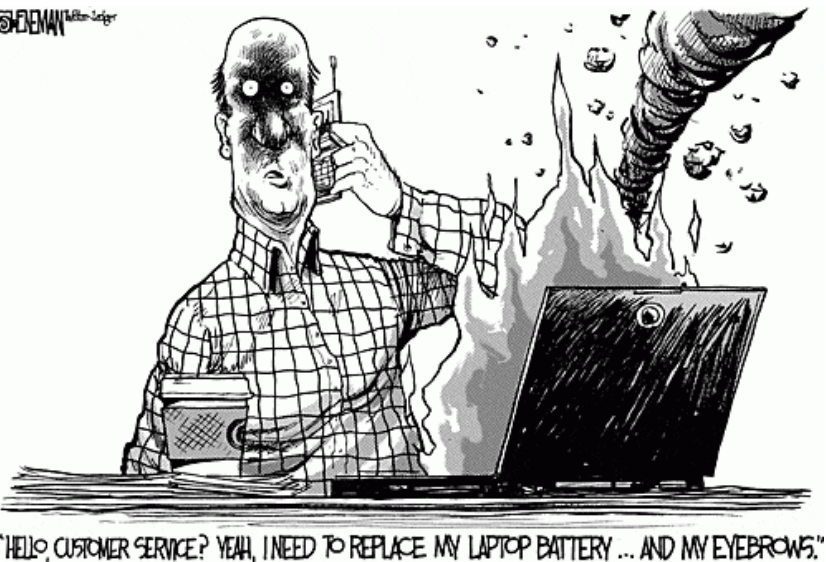
Here is a book you might like that tells you how to make your own battery pack using 18650 batteries. There is a lot of information out there now, both in literature and on YouTube about using these batteries to make power supplies for E-bikes and E-scooters. As folks who often need a portable power source, this book and videos can step you through the process. I bought the book and even the recommended spot welder for assembling these batteries. But caution is advised because if you puncture one of these batteries, then be prepared for a sudden burst of flames. Unfortunately, been there, done that when trying to remove this type of batteries from an old laptop battery pack. A hard lesson, but fortunately no injuries and the garage (and house) did not burn down.

“The greatest motivational act one person can do for another is to listen.” Roy E. Moody

73,

Larry Bradley, KK6QPE

03/04/2019



At their March 4, 2019 meeting, the MDARC Board approved the following proposed amendment to the Club's Bylaws. Its purpose is to explicitly allow for electronic voting in the annual election for Board members. The existing Article VI, concerning the Nominating Committee, also discusses the voting process and can be interpreted as requiring only paper ballots, which must be either postal mailed or hand delivered at the November meeting.

Paper-only voting is becoming increasingly expensive and creates a substantial amount of work for our volunteer committee members. Note this amendment does not eliminate paper ballots. Those that prefer written ballots will still be able to use them. This proposed amendment will be discussed and voted on at the next general Club meeting on Friday March 15, 2019.

Proposed Amendment to the Bylaws Concerning Electronic Voting

Approved by Board; 03/04/2019

Existing Article:

ARTICLE VI - NOMINATING COMMITTEE

Section 1. COMMITTEE MEMBERS

The nominating committee shall consist of three members appointed no later than the August General Membership meeting by the President.

Section 2. DUTIES

It shall be the duty of the Nominating Committee to procure candidates for each office, to qualify nominated members as to membership and willingness to accept the nomination, to receive and tabulate ballots.

Section 3. NOMINATIONS

Nominations in all forms to shall be presented at the September meeting. Any member in good standing with a United States Amateur Radio license may be proposed for nomination from the floor at the September meeting. The nominees' names shall be published in the October and November Club newsletters.

Section 4. BALLOTING

Ballots shall be mailed in the month of November. Voting may be by mail, with receipt required at the Club's post office box prior to the November meeting, or in person at the November meeting. A teller's committee shall be appointed by the President and the results of the election shall be announced at the November meeting.

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ARTICLE VI - ~~NOMINATING COMMITTEE~~ ELECTION COMMITTEE

Section 1. COMMITTEE MEMBERS

The ~~nominating committee~~ Election Committee shall consist of at least three members appointed by the President no later than the August General Membership meeting ~~by the President~~.

Section 2. DUTIES

It shall be the ~~duty~~ duties of the ~~Nominating Committee~~ Election Committee to procure candidates for each office, ~~to~~ qualify nominated members as to membership and willingness to accept the nomination, ensure ballots are properly and timely provided to all members in good standing, ~~to~~ receive and tabulate ballots, and announce the results of the election at the November meeting.

Section 3. NOMINATIONS

Nominations in all forms to shall be presented at the September meeting. Any member in good standing with a United States Amateur Radio license may be proposed for nomination from the floor at the September, October and November meetings. The ~~nominees'~~ names of those nominated prior to the publication deadline shall be published in the October and November Club newsletters.

Section 4. BALLOTING

~~Ballots shall be mailed in the month of November.~~ A ballot shall be provided to each member eligible to vote at least two weeks prior to the November meeting, by postal mail or electronically. If electronically, an option to print a paper ballot shall also be provided. Members that requested postal mail delivery of the Club's newsletter and directory shall be sent a ballot by postal mail. Ballots shall also be made available for voting at the November meeting.

~~Voting may be by mail,~~

At each member's option, completed ballots may be submitted by:

- (a) postal mail, with receipt required at the Club's post office box prior to the November meeting address on the ballot no later than two days before the November meeting;
- (b) electronically, such as by email or via an application on the internet (if made available), with submission made no later than two days before the November meeting; or
- (c) in person at the November meeting.

~~A teller's committee shall be appointed by the President and the results of the election shall be announced at the November meeting.~~

[Not needed. See Section 2.]

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At each member's option, completed ballots may be submitted by:

- (a) postal mail, with receipt required at the address on the ballot no later than two days before the November meeting;
- (b) electronically, such as by email or via an application on the internet (if made available), with submission made no later than two days before the November meeting; or
- (c) in person at the November meeting.

Submitted by Mike Patterson, N6JGA



What's On the Web?

MDARC's Digital Media Committee

The MDARC Web Site

As mentioned in our first article of this series, the Club's Digital Media Committee is responsible for the Club's two web sites, www.mdarc.org and www.pacificon.org; among other duties. This article will focus on the main Club web site, www.mdarc.org.

The web site is divided into six main areas, which can be seen in bold blue font in the navigation bar running down the left side of every web page. They are the Home page; About Us; Activities; Calendar; Carrier Newsletter; and Resources.

Three of those areas (About Us; Activities; and Resources) have several sections, which can be seen by clicking on the small gray arrowhead next to the main area title in the navigation bar to expand the lists. Some of those sections are further divided, again available by clicking on the small gray arrowhead by the section title.

As with all web sites, the Home page is our Club's introduction to the world. It also provides you, our members, with important information and links to other frequently desired pages. Examples include the presentation topic and speaker at our next meeting; the meeting location; links to our Repeater information and *Carrier* newsletter pages and the Pacificon web site; among numerous others. It also has an Announcements section that changes frequently, so be sure to check it occasionally.

The About Us area has sections that repeat the Club Announcements; describe our Committees and Coordinators; provide our Contact information; collect and display our Club History; provide a method to Join or Renew your membership; list our Officers, Board members and Committee Chairs; provide our Official Documents (bylaws, etc.) and provide a way to purchase Club-logo items.

The Activities area is the heart of the web site for our members. It has information on Club and Committee meetings and events; our equipment and systems, training; nets and several other topics. There's too much here for a complete discussion in this article, so it will be saved for a future one.

The Calendar is a single page, laid out in a monthly style, to show Club meetings and events in a concise way. Unfortunately, this page is not currently maintained, due to manpower constraints. If you're willing to take on this easy chore, please let me know.

The *Carrier* Newsletter page provides links to PDF copies of every *Carrier* we've been able to find. The first *Carrier* was published in February, 1953, but we haven't yet found a copy of it. The earliest edition we have is for a single month (March) in 1954; and we have large gaps in our collection for other years. If you have access to any *Carriers* that we're missing, please let us have a PDF copy of them.

The Resources area is perhaps the largest part of the web site, with information of interest to members and non-members alike. In fact, we've been contacted by people in other states and a couple of other nations thanking us for providing the information. Some have suggested additions or improvements. Like the Activities area, a full description will require its own article. The area has technical and operational information, such as a list of clubs in Northern California and Nevada; a Getting Started in Ham Radio section; a Glossary of terms and acronyms; descriptions and links about the regulations we function under; many operating aids (Morse Code, Metric system, phonetic alphabet, etc.) and much, much more.

As you can see, our web site is a busy place and worth exploring. If you haven't looked it over recently, you should. And if you find an error; or don't find something we should have, please let me know.

Thankx,
Mike Patterson, N6JGA
MDARC Digital Media Committee Chair, n6jga@arrl.net



Marsha Patterson at PACIFICON 2007 (KE6ZIW photo)

Sadly, I have to report the passing of a ham who was very near and dear to my heart.

Marsha Patterson, KE6WKD, has become a silent key. She suffered some health struggles recently and passed away on the evening of February 8, 2019.

Marsha worked very hard in many roles with Pacificon, but especially in security. I will always remember her gentle kindness, and wonderful sense of humor.

Marsha did not spend a lot of time talking, but when she did, I found it most worthwhile to pay close attention.

Pete Harris, KE6ZIW, said it best when he called Marsha Pacificon's "Team Mother". Marsha was the wife of Mike Patterson, N6JGA.

*Jim Siemons, W6LK
ARRL East Bay Section Manager
Past President, MDARC*



AM RALLY REPORT

By Matthew G. Vurek, N4DLA

On February 2 and 3, 2019, the third annual AM Rally was held. According to www.amrally.com, “the purpose of this event is to encourage the use of Amplitude Modulation (AM) on the 160, 80, 40, 20, 15, 10, and 6 meter amateur radio bands, and to highlight various types of AM equipment in use today. This event is open to any and all radio amateurs who are running full carrier amplitude modulation (standard AM), using any type of radio equipment. Modern, vintage, tube, transistor, software defined, military, boat anchor, broadcast, homebrew or commercially available radio are all welcomed to join in on the AM fun.”

Not having any serviceable HF AM transmitters (mine are perpetually “under repair”), I called CQ several times on the 6 meter AM calling frequency 50.400 MHz with my vintage 2002 Ranger RCI-5054DX-100 but did not hear any responses. Instead, I decided to listen in using my vintage 1973 Lafayette HA800B HF receiver, which, unlike the rest of my HF equipment, has an AM receive mode. This receiver was given to me in the summer of 1976 by a local citizen’s band radio operator and high school classmate. Although I used it to hear my first-ever single sideband and CW HF signals, it also has an AM mode switch. Tuning around 40 meters revealed a number stations transmitting with a variety of equipment around 7290 KHz. Several are described below.



K0SF, Corcoran, Minnesota. A number of operators were at this station and enjoyed transmitting with the ultimate piece of “heavy metal,” a former AM broadcast band transmitter once used at KMRY 1450 KHz in Cedar Rapids, Iowa. The story of the restoration of this beast, a Collins 20V-3, is in the K0SF listing on the QRZ dot com web page. A big transmitter needs an even bigger antenna, and it was feeding a two element, 40 meter yagi beam. The receiver was a National HRO-60.

NI6Q, Parks, Arizona (formerly of Ojai, California). Brian used the oldest transmitter I heard during the event, a Canadian Marconi Wireless 52 built in 1944 that drove a homebrew linear amplifier with 3-500Z tubes.



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ABOVE: Collins 20V-3 broadcast band transmitter at K0SF.

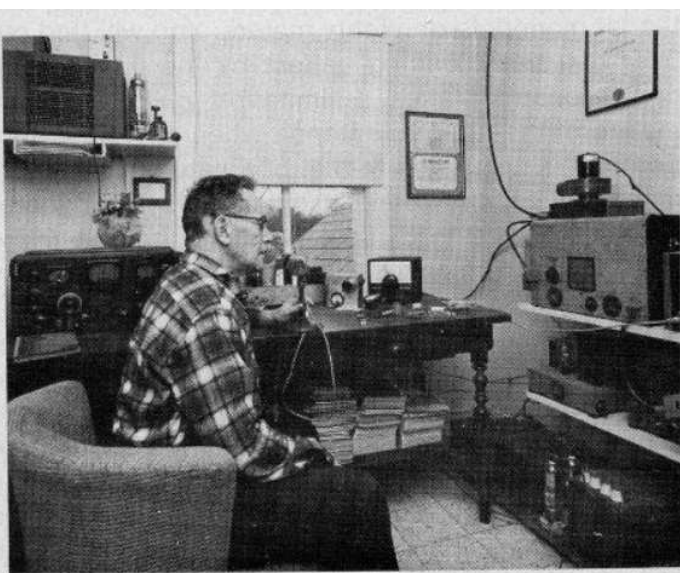
RIGHT: Canadian Marconi Wireless 52 transmitter built in 1944 at NI6Q.
(photos via QRZ.com)

KE7TRP, Chandler, Arizona. Clark used a Johnson 500 and a four element Moseley yagi beam. His listing on QRZ dot com shows photos of numerous classic AM transmitters that he restored. He was born almost 15 years after most of the equipment in his collection was manufactured, evidence that there are younger folks interested in the restoration, operation and appreciation of vintage amateur equipment. *(KE7TRP photo)*



N5YRJ, Mission Viejo, California. Steve used a vintage 1979 Yaesu FT-101ZD transceiver. Most Drake, Yaesu and Kenwood HF transceivers from the 1970s onward still worked on AM. However, the AM mode on these transceivers only features one sideband and several “traditional” AM stations noticed this discrepancy when they received those

signals during their QSOs with these “newer” radios. By the mid-1960s, Heathkit and Collins no longer offered the AM mode in their HF amateur radio equipment. *(Yaesu photo)*



This is the 75-meter a.m. station W3CIC in Edgewater, Maryland, and the operator Lawrence A. Laser. The final is a pair of 813's in push-pull modulated by a pair of Class B 805's. The receiver is an SX-28.

(1977 CQ Magazine photo)

It was great that the AM mode was feted in such an event. In 1975, while living in my native state of Maryland and two years before I earned my amateur radio license, I received my first short wave receiver, a Zenith Transoceanic H500. It was previously used by a neighbor, renowned National Geographic ichthyologist Dr. Eugenie Clark (1922-2015). Since it only received AM, the only amateur radio stations I could copy were the handful still using this mode on 75 meters, including legendary Maryland AMers Larry Laser, W3CIC (1901-1990) of Edgewater (who was once the White House radio communications director), and Jeff Cramer, WA3UAN (1954-1998), of Baltimore. I still have the H500, but its audio now fades out shortly after it is switched on and I have yet to diagnose its ailment, despite replacing all its vacuum tubes and testing other components.

BOARD OF DIRECTORS MEETING FEBRUARY 4, 2019

Black Bear Diner, Walnut Creek, CA

Attendees:

Larry Bradley, KK6QPE, Larry Loomer, KI6LNB, Cathi Walton K2CJW, Ron Bunch, W4FEK, Trevor Hall, WA6JAU, David Piersall, N6ORB, Mike Warren, W6MEW, John Primus, AF6RJ, Mike Patterson, N6JGA, Cal Vasquez, K6VT, Tom Deeble, KA6SIP, Dick Wade, WM6G, Eric Ferguson, KA6USJ, Marilyn Warren, W6MEW-YL (the vice president was absent).

7:02 The meeting was called to order by President Larry Bradley. Introductions were made around the table. Minutes of the last meeting were approved without comment. The agenda was reviewed. It was decided that the Unfinished Business and New Business would be handled before the committee reports.

In going through old meeting minutes, Mike, N6JGA, found some old approved motions that had been lost and not implemented by the board. He will make a presentation at a future meeting.

Back to the officer reports:

President: No report.

Vice President: Not present.

Secretary: He thanked the board for approving the January meeting minutes.

Treasurer: She presented a "fairly routine" accounting report for January. The Pacificon payment of \$17,151.10 was added to the budget as income.

Back to Unfinished Business: The Camp/Carr Fires Repeater Disaster Recovery Program. Mike, N6JGA, presented a summary statement outlining the conditions and the procedure for obtaining a \$1000 grant from MDARC. One board member commented that he had spoken to three club members who did not want their dues money spent on bringing back on line someone else's repeater. Other board members commented that this was a great program. A suggestion was made that the board is not obligated to spend the \$15,000. Just because the money is in the budget, that doesn't mean that we have to spend it.

It was proposed that the summary statement be sent to Jim, W6LK, our ARRL Section Manager, to forward to ARRL Headquarters for publication and to the NARCC president for passing out to the repeater owners in the fire affected area. The statement will also be published in the Carrier newsletter to publicize its availability. We want to spread the word as best as we can. Dick, WM6G, will make a press release for newspapers about this program.

7:50 One year was established as the deadline for a request submittal. The initial request submittal deadline will be October 1, 2019. The deadline for the submission of the paid invoice for purchased repeater material will be December 1, 2019. The approved paid invoice must be submitted to Cathi, K2CJW, for payment by December 20, 2019. The board gave Mike permission to go forward with his plans. The damaged repeater must have been coordinated by NARCC. The repeater can be located at a new site. The repeater must be able to provide communication to the Camp/Carr Fire area.

8:10 A discussion of amending the bylaws to allow electronic balloting for elections came next. The comment was made that the Membership Chair should not be in charge of the balloting, only supply the names and emails of the voting membership to a committee. Ballots shall be received no later than two days before the November meeting. The Nominating Committee name is changed to the Election Committee. Mike will rework his proposal and resubmit it to the board.

8:44 Education: The ongoing Technician class has an average student attendance of 23 and an average Elmer participation of 13. Student enrollment of the upcoming General class is 19.

Emergency Communications: The Mobility Matters man has been hard to get in touch with.

Digital: He is making progress with the compilation of the historical records.

Outreach: There is not much activity by email or phone. There was one inquiry to pick up some donated ham equipment.

Technical: The repeater was shut down for 3 hours on Jan.31 and 4 hours on Feb.2 due to broadcasting by a wayward ham. The internet link from Jim Tittle's, K6SOE, house to North Peak is up and operational.

Trailer: No report

Field Day: The rental paperwork for our site at Heather Farm Park has been submitted to the Walnut Creek Parks Department.

License Testing: No report.

8:54 Comments from the President: The MDARC-1 van is not suitable for public service work. We need training on the capabilities of MDARC-1. Fldigi is a possibility for training. There are radio dead spots in East County that MDARC-1 could fill.

For MDARC Public Service, the first activity will be the Diablo Trails Challenge on April 13, with Brazen Racing as the operator.

Membership: The renewals stand at 69%. New membership cards were passed out. The new layout of the card looks good.

President: He is still working on a hands-on Maker class.

Secretary: He proposed passing out a questionnaire to the club members as they entered the membership meeting to get their thoughts on what they would like to see happening with their club. The board said that the questionnaire should go to all of the members, not just those that attend the business meeting. The questionnaire should go out in the Carrier so that all members will have access to it. If we get information from the members, we should consider implementing it. The response rate might be 10% - responses from those members that are interested in the club. This would be worth doing if the board is committed to reviewing the information. The board would need to provide some response to the members. We need a person to carry the ball or a committee to propose changes that were suggested.

Questions would be: How can we make the club better? What makes you come to the meetings? What do you want to learn from your fellow club members? The questions should provide some focus for answers to the questions. The leadership of the club should recognize the interests of the members, not like in previous years. We should go to the members to solicit their opinions. How about a meeting in East County? That suggestion was not followed up on. The way you ask the question will slant the answer.

Kaiser Hospitals came to MDARC, asking for a ham-cram radio class. It was recommended that Kaiser ask the Benicia Amateur Radio Club for admission to their May 4 one-day class. The Hornet Amateur Radio Club may be having a one-day class in the near future.

The situation of purchasing two trailer tires from Brent, AF6HQ, was raised. He presented a quotation for payment with pricing for the two tires. The tires are brand new, and are located inside the trailer at this time. They are mounted on wheels with new valve stems. They were purchased new for a trailer that was burned in the Santa Rosa fire last year. It was determined by a board member that \$318.02 was a fair price for two new trailer tires.

Motion: The treasurer shall be instructed to pay Brent, AF6HQ, the sum of \$318.02, for two new tires that are in the possession of the Trailer Committee at this time. He shall be paid from a quotation from Les Schwab Tire Co. that was furnished by himself. It shall be recognized that this transaction is a deviation from the normal fiscal policy of MDARC, and shall not become an example for future reimbursements. The motion was approved by the board.

9:10 The meeting was adjourned.

Respectfully submitted,

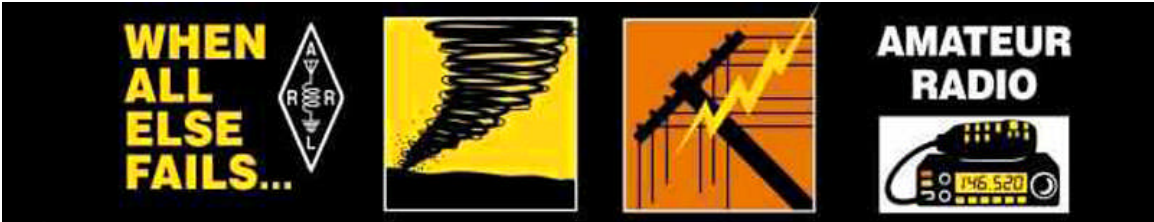
Larry Loomer, KI6LNB, Secretary

DISASTER RECOVERY FUND

Article II of the Articles of Incorporation for the MDARC provides several Purposes for the Club as a nonprofit public benefit corporation. For most of the Club’s existence, we’ve worked toward these purposes from within the Club only. At this time, we have an opportunity to offer some assistance to others. Last year’s Carr and Camp Fires brought devastation to thousands of people, including many hams. In addition to homes and other property, some hams lost their communications systems. The Club cannot help with the recovery of homes, vehicles and similar property. But, thanks to our current financial stability and the success of Pacificon, we can offer help with the recovery of ham systems and to return ham radio coverage to the affected area.

The MDARC Board of Directors has established a fund to assist those that have suffered ham system loses as a result of the Carr and Camp Fires. For details, see our Disaster Recovery Program web page at <http://www.mdarc.org/activities/disaster-recovery-program>.

Submitted by Mike Patterson, N6JGA



2019 Ham Radio Licensing Course Registration Available Now!

Mt. Diablo Amateur Radio Club (MDARC)
will be holding an 9 week course where you can learn
everything you need to upgrade from your Technician
license to 2nd level **General** license.



The next **General**
Class begins Thursday March 28th, 2019

ARRL The national association for
AMATEUR RADIO

The First license Class session starts at 6:30 the rest are from 7-9pm

Trinity Lutheran Church, 2317 Buena Vista Ave.
Walnut Creek, CA 94597

Registration/payment online is required. We use the current
ARRL Textbooks – Text book details are part of the registration
process. Follow up training and License testing will also be
available.

Complete class calendar and registration link:

<http://www.mdarc.org/activities/education/Classes>

The auto response at HamRadioClass@gmail.com will answer more
class questions. Non License questions at info@mdarc.org

***Share with your friends so they know they can get
their First level Technician Class License Starting Thursday***

August 15, 2019 by registering at:

<http://www.mdarc.org/activities/education/Classes>

Be sure to tell your friends they do

NOT need to learn Morse code!

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
(800) 444-4799

SALEM, NH
(800) 444-0047

PLANO, TX
(877) 455-8750

ONLINE STORE
WWW.HAMRADIO.COM

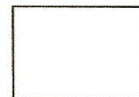
New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523
www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.781- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.781- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

March and April 2019 Club Calendar

Friday March 15, 2019	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Monday April 1, 2019	7:00pm	MDARC Board of Directors Meeting - Black Bear Diner 700 Bancroft Road, Countrywood Shopping Center, Walnut Creek
Saturday April 6, 2019	8:00am	MDARC Technical Committee Meeting - Ygnacio Valley Library 261 Oak Grove Road, Walnut Creek
Friday April 26, 2019	6:00pm	MDARC ANNUAL ACTION - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette (note - 4th Friday instead of 3rd Friday)